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-	142	717/139.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/08 14:46
-	10672	interpret\$3 and native and (switch\$3 or alternat\$3 or call\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:29
-	10715	interpret\$3 and native and (switch\$3 or alternat\$3 or call\$3 or invok\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:30
-	98	interpret\$3 same native and (switch\$3 or alternat\$3 or call\$3 or invok\$3) and (return adj address) and point\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 12:20
-	80	interpret\$3 same native and (switch\$3 or alternat\$3 or call\$3 or invok\$3) and (return adj address) and point\$3 and stack and register	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 13:54
-	13	("4463423" "5367685" "5418964" "5740441" "5761477" "5784553" "5787431" "5848274" "5848423" "5857197" "5864862" "5907707" "5913065").PN.	USPAT	2003/10/07 13:19
-	28	6081665.URPN.	USPAT	2003/10/07 13:24
-	693	interpret\$3 and native and (("32" adj bit) or 32-bit) and (8-bit or bytecode or byte-code or ("8" adj bit) or java)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 15:29
-	84	interpret\$3 same native and (("32" adj bit) or 32-bit) same (8-bit or bytecode or byte-code or ("8" adj bit) or java)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 16:46
-	7	("5335344" "5367685" "5381547" "5590331" "5675801" "5761513" "5787431").PN.	USPAT	2003/10/07 15:42
-	10	5923878.URPN.	USPAT	2003/10/07 15:46
-	45759	photon	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 16:46
-	163	photon same interpret\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 16:47
-	23	photon same interpret\$3 and ARM	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 16:47
-	2	photon same interpret\$3 and ARM and native	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 16:47

-	2	photon same interpret\$3 and ???/???.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 16:48
-	135	memory and (native and (bytecode or byte-code)) near3 instruction	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 17:09
-	0	memory and (native and (bytecode or byte-code)) near3 instruction and (memory adj arrangement)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/07 17:09
-	2	6317872.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/08 16:10
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-	25	interpret\$3 near5 (store\$3 near3 cache)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:04
-	0	(instantiat\$3 near3 interpret\$3) near3 cache	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:05
-	49	dual near5 compil\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:06
-	67	hybrid near5 compil\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:25
-	49	(dual near5 compil\$5) not (hybrid near5 compil\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:27
-	6	(dual near5 compil\$5) not (hybrid near5 compil\$5) and interpret\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:27
-	1556	interpret\$3 and native and (switch\$3 or alternat\$3 or call\$3) and cache	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:29
-	756	interpret\$3 and native and (switch\$3 or alternat\$3 or call\$3 or invok\$3)and instruction and address and register and stack	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:31

-	362	((interpret\$3 or vm or (virtual adj machine)) same compile) and (hll or high-level or 32bit or 32-bit or ("32" adj bit) or native) same (bytecode or byte-code or (byte adj code) or 8bit or 8-bit or bit or java)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 08:44
-	134	((interpret\$3 or vm or (virtual adj machine)) same compile) and (hll or high-level or 32bit or 32-bit or ("32" adj bit) or native) same (bytecode or byte-code or (byte adj code) or 8bit or 8-bit or bit or java) and address and return and stack and register	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:15
-	40	(cross-platform or (cross adj platform)) near3 code	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:24
-	402	((6158045.PN. and (((interpret\$3 or vm or (virtual adj machine)) same compile) and (hll or high-level or 32bit or 32-bit or ("32" adj bit) or native) same (bytecode or byte-code or (byte adj code) or 8bit or 8-bit or bit or java) and address and return and stack and register)) or 32-bit or 32bit) and (java or bytecode or byte-code or byte) and (compil\$5 same interpret\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:31
-	747	709/100.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:57
-	520	709/310.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:32
-	454	709/107.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:33
-	543	712/245.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:41
-	247	712/209.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:39
-	0	712/209.ccls. and ((6295642.PN. and (((interpret\$3 or vm or (virtual adj machine)) same compile) and (hll or high-level or 32bit or 32-bit or ("32" adj bit) or native) same (bytecode or byte-code or (byte adj code) or 8bit or 8-bit or bit or java) and address and return and stack and register)) and (6158045.PN. and (((interpret\$3 or vm or (virtual adj machine)) same compile) and (hll or high-level or 32bit or 32-bit or ("32" adj bit) or native) same (bytecode or byte-code or (byte adj code) or 8bit or 8-bit or bit or java) and address and return and stack and register)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:40
-	1	712/209.ccls. and (hll and bytecode)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:40

-	0	712/245.ccls. and (((6295642.PN. and (((interpret\$3 or vm or (virtual adj machine)) same compile) and (hll or high-level or 32bit or 32-bit or ("32" adj bit) or native) same (bytecode or byte-code or (byte adj code) or 8bit or 8-bit or bit or java) and address and return and stack and register)) and (6158045.PN. and (((interpret\$3 or vm or (virtual adj machine)) same compile) and (hll or high-level or 32bit or 32-bit or ("32" adj bit) or native) same (bytecode or byte-code or (byte adj code) or 8bit or 8-bit or bit or java) and address and return and stack and register)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:41
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-	7	712/245.ccls. and (mix\$3 near3 instruction)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:52
-	1	709/100.ccls. and (risc or cisc) same (bytecode or byte-code or java)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:55
-	0	709/100.ccls. and (32bit) same (bytecode or byte-code or java)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:56
-	1	709/100.ccls. and (32-bit) same (bytecode or byte-code or java)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 11:56
-	47	709/100.ccls. and (compil\$5 same interpret\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 12:46
-	0	712.300.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 12:46
-	264	712/300.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 12:52
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-	382	712/244.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 12:47
-	145	cross adj language	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 13:05
-	20	persistent near3 (vm or (virtual adj machine))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 13:28
-	1	z8 and (zylog or zylogue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 15:30
-	2	5504930.PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/09 15:31
-	2	6513156.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/19 17:00
-	0	6513156.pn. and register	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/19 17:00
-	1	6513156.pn. and stack	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/19 17:00
-	192	(interpreter or vm or (virtual adj machine)) near5 cache	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/21 13:25
-	131	(interpreter or vm or (virtual adj machine)) near3 cache	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/21 13:26
-	29	(interpreter or vm or (virtual adj machine)) near3 (stor\$3 or locat\$3) near3 cache	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/21 13:50
-	985	(interpreter or vm or (virtual adj machine)) near3 (speed or fast)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/21 13:51
-	186	(interpreter or vm or (virtual adj machine)) near3 (frequency)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/21 13:51

-	19	((interpreter or vm or (virtual adj machine)) near3 (speed or fast)) and ((interpreter or vm or (virtual adj machine)) near3 (frequency))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/21 13:58
-	2	((interpreter or vm or (virtual adj machine)) near3 (speed or fast)) and ((interpreter or vm or (virtual adj machine)) near3 (frequency)) and cache	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/10/21 13:58



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Microarchitecture, 1996. MICRO-29. Proceedings of the 29th Annual IEEE/ACM International Symposium on , 2-4 Dec. 1996

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[Ana Azevedo](#)[Alex Nicolau](#)[Joe Hummel](#)

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↑ INDEX TERMS

Primary Classification:

D. Software

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Additional Classification:

D. Software

↪ **D.2 SOFTWARE ENGINEERING**

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1 [Techniques for obtaining high performance in Java programs](#)

99%

Iffat H. Kazi , Howard H. Chen , Berdenia Stanley , David J. Lilja

ACM Computing Surveys (CSUR) September 2000

Volume 32 Issue 3

This survey describes research directions in techniques to improve the performance of programs written in the Java programming language.

The standard technique for Java execution is interpretation, which provides for extensive portability of programs. A Java interpreter dynamically executes Java bytecodes, which comprise the instruction set of the Java Virtual Machine (JVM). Execution time performance of Java programs can be improved through compilation, possibly at the expense of portability ...